

Patent claims

1. A joint for securing movable elements (3.1, 3.2) to a doll's body (1) or for connecting individual elements (3.1, 3.2, 3.3, 30.1, 30.2), in particular doll's arm parts and/or doll's leg parts, to one another, characterized in that a rotary element (4, 40, 400) is inserted rotatably in the doll's body (1) and/or in the element (3.3) and/or in the element (30.2) and is connected rotatably to an end area (5, 500) of the element (3.1, 3.2, 30.1) or to an element (50) inserted therein.
2. The joint as claimed in claim 1, characterized in that the rotary element (4, 40, 400) is designed in particular in the shape of a disk.
3. The joint as claimed in claim 1 or 2, characterized in that the end area (5) of the element (3.1, 3.2), in particular of the doll's arm part, has a spherical shape.
4. The joint as claimed in claim 1 or 2, characterized in that the element (50) inserted into the element (3.1), in particular the doll's arm part, has a spherical shape.
5. The joint as claimed in claim 1 or 2, characterized in that the end area (500) of the element (30.1), in particular of the doll's leg part, has a spherical shape.
6. The joint as claimed in at least one of claims 1 through 5, characterized in that the rotary element (4, 400)

is inserted into a slit (13, 540) of the spherical end area (5, 500).

7. The joint as claimed in at least one of claims 1 through 5, characterized in that the rotary element (40) is inserted into a slit (54) of the spherical element (50).

8. The joint as claimed in at least one of claims 1 through 7, characterized in that a diameter (d_1, d_5) of the rotary element (4, 400) corresponds approximately to a diameter (d_2, d_6) of the spherical end area (5, 500).

9. The joint as claimed in at least one of claims 1 through 7, characterized in that a diameter (d_3) of the rotary element (40) corresponds approximately to a diameter (d_4) of the spherical element (50).

10. The joint as claimed in at least one of claims 1 through 9, characterized in that outer faces (6, 410, 7, 510) of the rotary element (4, 400) and of the spherical end area (5, 500) lie externally in a common plane and are flush with one another.

11. The joint as claimed in at least one of claims 1 through 9, characterized in that outer faces (41, 51) of the rotary element (40) and of the spherical element (50) lie externally in a common plane and flush with one another.

12. The joint as claimed in at least one of claims 1 through 11, characterized in that the rotary element (4, 400) and the spherical end area (5, 500) each have a bore (15.1, 15.2, 15.5, 15.6) for receiving at least one securing means

(14, 210).

13. The joint as claimed in at least one of claims 1 through 11, characterized in that the rotary element (40) and the spherical element (50) each have a bore (15.3, 15.4) for receiving at least one securing means (21).

14. The joint as claimed in at least one of claims 1 through 13, characterized in that the rotary element (4, 40, 400) is assigned a holding element (8, 42, 420).

15. The joint as claimed in at least one of claims 1 through 14, characterized in that the spherical element (50) is assigned a holding element (52).

16. The joint as claimed in claim 14, characterized in that the holding element (8, 42, 420) is connected to the rotary element (4, 40, 400) in a permanent or releasable manner.

17. The joint as claimed in one of claims 14 through 16, characterized in that the holding element (8) and the rotary element (4) are connected permanently to one another to form an individual component and are able to rotate about an axis (A), the holding element (8) being inserted into a recess (10) of the doll's body (1).

18. The joint as claimed in one of claims 14 through 16, characterized in that the holding element (42, 420) and the rotary element (40, 400) are connected permanently to one another to form a single component and are able to rotate about an axis (E, G), the holding element (42, 420) being

inserted into a recess (45, 450) of the element (3.3, 30.2).

19. The joint as claimed in claim 17 or 18, characterized in that only the rotary element (4) is able to rotate about an axis (A), the holding element (8) being inserted fixedly in the recess (10) of the doll's body (1).

20. The joint as claimed in claim 17 or 18, characterized in that only the rotary element (40, 400) is able to rotate about an axis (E, G), the holding element (42, 420) being inserted fixedly in the recess (45, 450) of the element (3.3, 30.2).

21. The joint as claimed in at least one of claims 15 through 20, characterized in that the spherical element (50) is able to rotate about an axis (D), the holding element (52) being inserted into a recess (55) of the element (3.1).

22. The joint as claimed in at least one of claims 17 through 21, characterized in that a constriction (12, 46, 56, 460) of the recess (10, 45, 55, 450) engages at least partially behind the holding element (8, 42, 52, 420) and secures it there.

23. The joint as claimed in at least one of claims 1 through 22, characterized in that the element (3.1, 3.2), in particular the doll's arm part, is rotatable about the axis (A).

24. The joint as claimed in at least one of claims 1 through 23, characterized in that the element (3.1, 3.2), in particular the doll's arm part, is pivotable about an axis

(C), the axes (A, C) being arranged approximately perpendicular to one another.

25. The joint as claimed in at least one of claims 1 through 24, characterized in that the element (3.3), in particular the doll's arm part, is rotatable about an axis (D).

26. The joint as claimed in at least one of claims 1 through 25, characterized in that the element (3.3), in particular the doll's arm part, is rotatable about an axis (E).

27. The joint as claimed in at least one of claims 1 through 26, characterized in that the element (3.3), in particular the doll's arm part, is pivotable about an axis (B), the axes (D, E) and the axis (B) being arranged approximately perpendicular to one another.

28. The joint as claimed in at least one of claims 1 through 27, characterized in that the element (30.2), in particular the doll's leg part, is rotatable about an axis (G).

29. The joint as claimed in at least one of claims 1 through 28, characterized in that the element (30.2), in particular the doll's leg part, is pivotable about an axis (F), the axes (G, F) being arranged approximately perpendicular to one another.

30. The joint as claimed in at least one of claims 14 through 29, characterized in that a guide (9, 430) is

provided between the holding element (8, 400) and the rotary element (4, 400), the guide (9, 430) at least partially guiding the end area (5, 500) of the element (3.1, 3.2, 30.1).

31. The joint as claimed in at least one of claims 14 through 29, characterized in that a guide (43) is provided between the holding element (42) and the rotary element (40), the guide (43) at least partially guiding the end area (50) of the element (3.3).

32. The joint as claimed in at least one of claims 14 through 29, characterized in that a guide (53) is provided between the holding element (52) and the spherical element (50), the guide (53) at least partially guiding the rotary element (40).

33. The joint as claimed in one of claims 30 through 32, characterized in that the guide (9, 43, 53, 430) at one end is shaped at least partially as a concave recess.